Synthetic Biology for Extraterrestrial in Situ Resource Utilization (2)

Completed Technology Project (2011 - 2015)

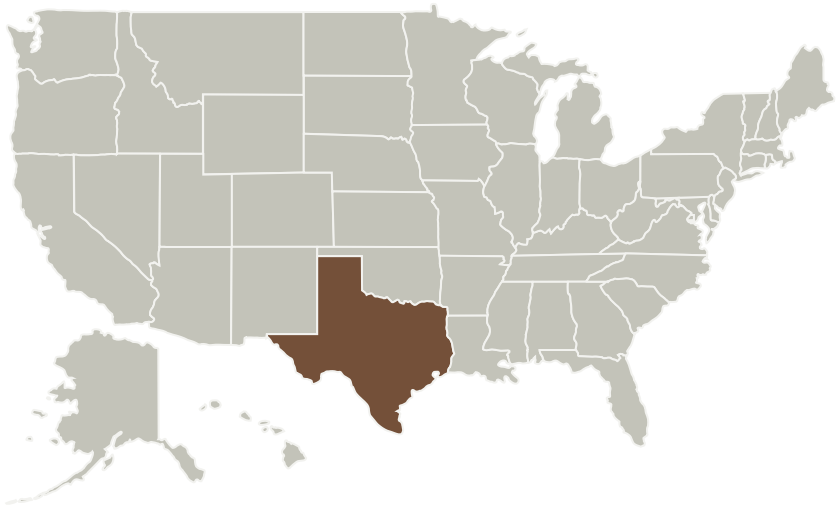
Project Introduction

Proposal to fund research into the design of a cellular system suitable for resource utilization on extraterrestrial planetary surfaces using synthetic biology.

Anticipated Benefits

The design of a cellular system suitable for resource utilization on extraterrestrial planetary surfaces using synthetic biology.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Rice University	Supporting Organization	Academia	Houston, Texas

Primary U.S. Work Locations
Texas

Project Image Synthetic Biology for Extraterrestrial in Situ Resource Utilization (2)

Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Responsible Program:

Space Technology Research Grants

Synthetic Biology for Extraterrestrial in Situ Resource Utilization (2)

Completed Technology Project (2011 - 2015)

Images

4275-1363266547470.jpg
Project Image Synthetic Biology for Extraterrestrial in Situ Resource Utilization (2)
(https://techport.nasa.gov/image/1831)

Project Website:

https://www.nasa.gov/directorates/spacetech/home/index.html

Project Management

Program Director:
Claudia M Meyer

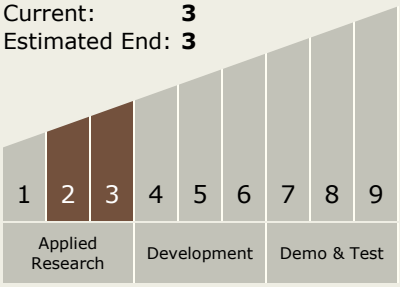
Program Manager:
Hung D Nguyen

Principal Investigator:
Jeffrey T Tabor

Co-Investigator:
Lucas Hartsough

Technology Maturity (TRL)

Start: **2**
Current: **3**
Estimated End: **3**



Technology Areas

Primary:

- TX07 Exploration Destination Systems
  - TX07.1 In-Situ Resource Utilization
    - TX07.1.2 Resource Acquisition, Isolation, and Preparation